

4th NOAA Testbed and Operational Proving Ground Workshop Agenda

Tuesday, April 2, 2013

- 8:00 – 8:30** **Coffee, tea, and light refreshments**
- 8:30-8:40** **Workshop Welcome** (*Louis Uccellini, NWS Director*)
- 8:40- 9:00** **Workshop Overview**
- **NWS** (*John Murphy, NWS/OST/PPD Chief*)
 - **OAR** (*Gary Matlock, OAR/PPE Director*)
- 9:00-9:45** **Testbed Roundup: Aviation Weather Testbed** (*Bruce Entwistle, NWS/AWC*)
- General overview
 - Featured accomplishments/significance/results
 - Q&A (15 min)
- 9:45-10:00** **Break**
- 10:00-10:30** **Coastal and Ocean Modeling Testbed** (*Becky Baltes, NOS/IOOS*)
- 10:30-11:15** **Testbed Roundup: Hydrometeorology Testbed** (*Allen White, OAR/ESRL/PSD*)
- 11:15-12:00** **Testbed Roundup: GOES-R Proving Ground** (*Steve Goodman, NESDIS/GOESPO*)
- 12:15-1:15** **Lunch (on-site)**
- 1:15-2:00** **Testbed Roundup: Hazardous Weather Testbed** (*Lans Rothfusz, OAR/NSSL*)
- 2:00-2:45** **Testbed Roundup: Developmental Testbed Center** (*Zoltan Toth, OAR/ESRL/GSD*)
- 2:45-3:30** **Testbed Roundup: Joint Center for Satellite Data Assimilation**
(*Sid-Ahmed Boukabara, NESDIS/STAR*)
- 3:30-3:45** **Break**
- 3:45-4:30** **Testbed Roundup: Joint Hurricane Testbed** (*Shirley Murillo, NWS/NCEP/NHC*)
- 4:30-5:15** **Testbed Roundup: Unmanned Aircraft Systems** (*Robbie Hood, OAR*)
- 5:15-5:30** **Day 1 Wrap-up / Day 2 Preview /Adjourn**
- 6:30** **Dinner organized by participants**

Wednesday, April 3, 2013

- 7:30-8:45** **Coffee, tea, and light refreshments**
- 8:00-8:45** **NCWCP Tour (registered tour participants meet in atrium)**
- 8:45-9:30** **Testbed Roundup: Climate Testbed** (*Jin Huang, NWS/CPC*)
- 9:30-10:00** **Testbed Roundup: Operations and Services Proving Ground** (*Kim Runk, NWS/OCWWS*)
- 10:00-10:15** **Break**
- 10:15-11:00** **Emerging Capability Updates**
- 10:15-10:30** Observing System Simulation Experiment Testbed (*Bob Atlas, NOAA/AOML*)
- 10:30-10:45** Space Weather Testbed (*Rodney Viereck, NWS/SWPC*)
- 10:45-11:00** Joint Polar Satellite System Proving Ground (*Mitch Goldberg, NESDIS/STAR*)
- 11:00-11:30** **Attend NCEP/WPC Weather Map Discussion (registered map participants meet in atrium)**
- 11:30-12:40** **Lunch (on-site)**
- 12:40-1:00** **High Impact Environmental Events – Session I**
- 12:40-1:00** *A Review of the SURA-IOOS Coastal and Ocean Modeling Testbed's Inter-Model Evaluation of Tides, Waves, and Hurricane Surge in the Gulf of Mexico*
 (*P.C. Kerr, University of Notre Dame*)
- 1:00-1:20** *HWRF testing and user support at the Developmental Testbed Center*
 (*Ligia Bernardet, OAR/ESRL/GSD*)
- 1:20-1:40** *Testing and evaluation of GSI Hybrid Data Assimilation for basin-scale HWRF*
 (*Hui Shao, NWS/EMC*)
- 1:40-2:00** *Improving very-short-range Forecasts of the Pre-Convective Environment using operational Geostationary Satellite Observations*
 (*Ralph Peterson, University of Wisconsin*)
- 2:00-3:30** **Break and Poster Session for High Impact Environmental Events with a light snack**
- Posters of High Impact Environmental Events**
- Analyzing Extreme Quantitative Precipitation Forecast Performance* *Ellen Sukovich*
- Initial Condition Perturbations for the Hydrometeorological Testbed* *Isidora Jankov*
- Ensemble Forecasting System*
- Advanced techniques for satellite microwave data assimilation and application to global and regional NWP* *Kevin Garrett*
- Evaluations Of High-Impact Weather Prediction* *Tressa Fowler*
- Evaluation of Forecasts of the Water Vapor Signature of Atmospheric Rivers in Operational Numerical Weather Prediction Models* *Gary Wick*
- Next-Generation Warning Concepts in the Hazardous Weather Testbed* *Lans Rothfus*
- Introduction of a new suite of fog/low stratus products into NWS operations* *Mike Pavolonis*

The Mesoscale Model Evaluation Testbed (MMET): Assisting with the transition of promising NWP techniques from research to operations [Jamie Wolff](#)

Extreme precipitation in the Southeast US: HMT-Southeast's specialized observations and modeling focus on high-impact forecast challenges [Kelly Mahoney](#)

The 2012-2013 Hydrometeorology Testbed Numerical Weather Prediction Suite [Ligia Bernardet](#)

Assimilating Satellite Observations of Clouds and Precipitation into the NCEP NWP Models [Min-Jeong Kim](#)

Improving Drought Monitoring and Forecast Operation at CPC [Kingtse Mo](#)

Posters of Affiliated Programs

Product Testing and Research Capabilities with Mount Washington Observatory [Cyrena-Marie Briedé](#)

3:30-4:50 High Impact Environmental Events – Session II

3:30-3:50 *Verification of Simulated NWS Tornado Warnings During Parise 2012*
[\(Pam Heinselman, OAR/NSSL\)](#)

3:50-4:10 *Coupled Quantitative Precipitation Estimation and Distributed Hydrological Modeling: Case Study for the Russian-Napa Rivers, CA*
[\(Rob Cifelli, OAR/ESRL/PSD\)](#)

4:10-4:30 *A Case Study of the Research-to-Operations (R2O) Process at HMT-WPC*
[\(Thomas Workoff, NWS/WPC\)](#)

4:30-4:50 *HMT-HPC: Advancing the Prediction of Extreme Precipitation Events*
[\(Faye Barthold, NWS/WPC\)](#)

4:50-5:00 **Day 2 Wrap-up / Day 3 Preview / Adjourn**

6:00 **Dinner organized by participants**

Thursday, April 4, 2013

8:30-9:00 **Coffee, tea, and light refreshments**

9:00-10:00 Affiliated Programs

- Short-term Prediction Research and Transition Center [\(Gary Jedlovec, NASA\)](#)
- Collaborative Science, Technology, & Applied Research Program [\(Chris Hedge, NWS/OST\)](#)
- NWS' Virtual Laboratory [\(Steve Smith, NWS/OST\)](#)

10:00-10:15 **Break**

10:15-11:45 Testing Coordination, Collaboration and Challenges

- Influencing SEE / NOAA long-range planning
- Update on Performance Metrics
- Opportunities for collaborative activities

- Future workshop themes

11:45 -12:00 **Summary and Next Steps** (*Paula Davidson, NWS/OST, and Kevin Kelleher, OAR/NSSL*)
12:00 **Adjourn Workshop**